Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A series device of protection against a heating of a parallel protection element of an equipment of a telephone line, including:
- a bidirectional cut-off element of normally on state, in series with the parallel protection element;
- a temperature detection element adjacent to the parallel protection element; and a switching element having an input coupled to an output of the detection element and adapted to turning turn off the cut-off element when the temperature of the parallel protective element detected by the detection element exceeds a predetermined threshold.
- 2. (Original) The device of claim 1, wherein the switching element is a normally-off bidirectional element.
- 3. (Original) The protection device of claim 1, wherein said cut-off element includes two cut-off thyristors assembled in antiparallel and each having a resistor connected between its anode and cathode gates.
- 4. (Original) The protection device of claim 3, wherein said switching element includes two control thyristors, respectively a cathode-gate thyristor and an anode-gate thyristor, which are respectively associated with the anode and cathode gates of the cut-off thyristors.

- 5. (Original) The protection device of claim 4, wherein each control thyristor of the switching element has its gate connected to a midpoint of a resistive dividing bridge having one of its resistive elements formed of a positive coefficient thermistor.
- 6. (Original) The protection device of claim 4, wherein each control thyristor of the switching element has its gate connected to a midpoint of a resistive dividing bridge via respective series connection of diodes.
- 7. (Original) The protection device of claim 4, wherein a diode is interposed between the anode-gate control thyristor and the cathode gate of the cut-off thyristor with which it is associated.
- 8. (Original) The protection device of claim 1, further including a single semiconductor substrate having the bidirectional cut-off element, the temperature detection element, and the switching element integral formed thereon.
- 9. (Original) The protection device of claim 1, wherein the temperature detection element detects the temperature of the parallel protection element.
- 10. (Original) The protection device of claim 1, wherein the temperature detection element is integrated in the same semiconductor substrate as the parallel protection element.
 - 11. (Currently Amended) A protection circuit comprising: a protection element;
- a cut-off circuit in a normally on state, in series with a main power to the protection element;
 - a temperature detection element positioned adjacent to the protection element; and

a normally-off switching element coupled to the temperature detection element to receive a signal when a temperature sensed by the temperature detection circuit is above a threshold value, the switching element being structured to turn on in response to the signal and eoupled to output a signal to the cut-off circuit which turns off the cut-off circuit and disconnects the main power from the protection element.

12. (Canceled)

- 13. (Previously Presented) A series protection device comprising:
- a bidirectional cut-off element that is normally in an on state, the bidirectional cut-off element including two cut-off thyristors assembled in antiparallel, each having a resistor connected between its anode and cathode gates;
 - a protection element in series with the bidirectional cut-off element;
 - a temperature detection element adjacent to the parallel protection element; and
- a switching element adapted to turning off the cut-off element when the temperature of the protection element as detected by the temperature detection element exceeds a predetermined threshold, the switching element including two control thyristors, respectively a cathode-gate thyristor and an anode-gate thyristor which are respectively associated with the anode and cathode-gates of the cut-off thyristors and further including a diode positioned between the anode-gate control thyristor and the cathode-gate of the cut-off thyristor with which it is associated.
 - 14. (New) A protection device for protecting equipment, comprising:
 - a parallel protection element in parallel with the equipment;
- a bidirectional cut-off element of normally on state, coupled to the protection element, and including first and second cut-off thyristors assembled in antiparallel, each of the cut-off thyristors having a control terminal;
 - a temperature detection element adjacent to the parallel protection element; and

a switching element adapted to turn off the cut-off element when the temperature of the parallel protective element detected by the detection element exceeds a predetermined threshold, wherein the switching element includes first and second control thyristors that are respectively connected between the detection element and the control terminals of the first and second cut-off thyristors.

- of the switching element has a control terminal, the detection element includes first and second thermistors connected to each other, and the switching element further includes a first resistor connected at a first intermediate node to the control terminal of the first control thyristor and the first thermistor and a second resistor connected at a second intermediate node to the control terminal of the second control thyristor and the second thermistor.
- 16. (New) The protection device of claim 14, wherein each control thyristor of the switching element has a control terminal and the detection element includes:

a resistive divider connected between first and second voltages and including first and second intermediate nodes;

a first series connection of diodes connected between the first intermediate node and the control terminal of the first control thyristor; and

a second series connection of diodes connected between the second intermediate node and the control terminal of the second control thyristor.

- 17. (New) The protection device of claim 14, wherein the switching element further includes a diode interposed between the first control thyristor and the control terminal of the first cut-off thyristor.
- 18. (New) The protection device of claim 14 wherein the control terminal of the first cut-off thyristor is an anode-gate and the control terminal of the second cut-off thyristor is a cathode-gate.

- 19. (New) The protection device of claim 14 wherein the cut-off element further includes a first resistor connected between an anode-gate and a cathode-gate of the first cut-off thyristor, and a second resistor connected between an anode-gate and a cathode-gate of the second cut-off thyristor, wherein the control terminal of the first cut-off thyristor is one of the anode- and cathode-gates of the first cut-off thyristor, and the control terminal of the second cut-off thyristor is one of the anode- and cathode-gates of the second cut-off thyristor.
- 20. (New) The protection device of claim 14 wherein the first control thyristor is a cathode-gate thyristor and the second control thyristor is an anode-gate thyristor.